

=> FILE REG

FILE 'REGISTRY' ENTERED AT 10:19:24 ON 01 AUG 2007

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=> D HIS

FILE 'LREGISTRY' ENTERED AT 09:37:30 ON 01 AUG 2007

L1 STR

FILE 'REGISTRY' ENTERED AT 09:39:57 ON 01 AUG 2007

L2 SCR 2043

L3 STR L1

L4 50 S L3 AND L2

L5 6199 S L3 AND L2 FUL

SAV L5 SES248/A

FILE 'HCA' ENTERED AT 09:43:59 ON 01 AUG 2007

L6 3568 S L5

L7 158174 S (LIQ# OR LIQUID?)(2A)CRYST? OR LCD OR L(W)C(W)D OR (L(W

L8 183 S L6 AND L7

FILE 'LREGISTRY' ENTERED AT 09:44:18 ON 01 AUG 2007

L9 STR

E ACRYLIC ACID/CN

L10 1 S E3

E METHACRYLIC ACID/CN

L11 1 S E3

E OXIRANE/CN

L12 1 S E3

E METHYLOXIRANE/CN

L13 1 S E3

L14 216 S 79-10-7/CRN

L15 183 S 79-41-4/CRN

L16 67 S 75-21-8/CRN

L17 50 S 75-56-9/CRN

FILE 'REGISTRY' ENTERED AT 09:50:52 ON 01 AUG 2007

L18 106466 S L14 OR L15

L19 34171 S L16 OR L17

L20 4759 S L18 AND L19

L21 71 S L20 AND L5

L22 50 S L9 SSS SAM SUB=L5

FILE 'LREGISTRY' ENTERED AT 09:52:57 ON 01 AUG 2007

L23 6 S L9  
L24 120 S L9 FUL  
E POLYETHER/PCT  
L25 874 S E3  
L26 6 S L24 AND L25  
E (C2 H4 O)N C4 H6 O2/MF  
L27 2 S E3  
L28 1 S L26 AND L27  
L29 0 S 25736-86-1/CRN  
E (C2 H4 O)N C3 H4 O2/MF  
L30 1 S E3  
L31 0 S 26403-58-7/CRN

FILE 'REGISTRY' ENTERED AT 09:58:20 ON 01 AUG 2007

L32 2709 S L29 OR L31  
L33 175 S L32 AND L5

FILE 'HCA' ENTERED AT 09:59:53 ON 01 AUG 2007

L34 57 S L21  
L35 149 S L33  
L36 29 S (L34 OR L35) AND L7

FILE 'LREGISTRY' ENTERED AT 10:00:27 ON 01 AUG 2007

L37 STR

FILE 'REGISTRY' ENTERED AT 10:10:04 ON 01 AUG 2007

L38 50 S L37 SSS SAM SUB=L5  
L39 2090 S L37 SSS FUL SUB=L5  
L40 14 S L39 AND L21  
L41 50 S L39 AND L33

FILE 'HCA' ENTERED AT 10:11:51 ON 01 AUG 2007

L42 7 S L40  
L43 42 S L41  
L44 4 S (L42 OR L43) AND L7  
L45 25 S L36 NOT L44  
L46 0 S 1840-2003/PY,PRY AND L44  
L47 7 S 1840-2003/PY,PRY AND L45

FILE 'REGISTRY' ENTERED AT 10:17:35 ON 01 AUG 2007

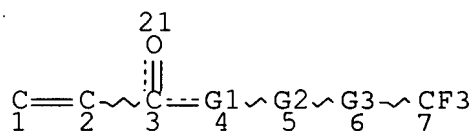
L48 63 S L40 OR L41  
L49 245 S L21 OR L33

FILE 'REGISTRY' ENTERED AT 10:19:24 ON 01 AUG 2007

=> D L39 QUE STAT

L2 SCR 2043

L3 STR



VAR G1=O/S/N

REP G2=(1-8) CH2

REP G3=(1-8) CF2

NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

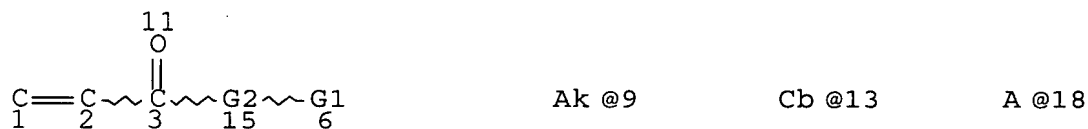
RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 8

STEREO ATTRIBUTES: NONE

L5 6199 SEA FILE=REGISTRY SSS FUL L3 AND L2

L37 STR



VAR G1=9/13

REP G2=(1-10) 18

NODE ATTRIBUTES:

NSPEC IS RC AT 18

CONNECT IS E1 RC AT 9

CONNECT IS E1 RC AT 13

DEFAULT MLEVEL IS ATOM

GGCAT IS SAT AT 9

GGCAT IS SAT AT 13

DEFAULT ECLEVEL IS LIMITED

ECOUNT IS M4 C AT 9

ECOUNT IS M4 C AT 13

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 9

STEREO ATTRIBUTES: NONE

L39 2090 SEA FILE=REGISTRY SUB=L5 SSS FUL L37

100.0% PROCESSED 6167 ITERATIONS

2090 ANSWERS

SEARCH TIME: 00.00.01

=> FILE HCA

FILE 'HCA' ENTERED AT 10:20:11 ON 01 AUG 2007

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=> D L47 1-7 BIB ABS HITSTR HITIND

L47 ANSWER 1 OF 7 HCA COPYRIGHT 2007 ACS on STN

AN 142:400693 HCA Full-text

TI Fluoropolymer compositions for antisoiling optical members, and  
image display devices

IN Obayashi, Tatsuhiko

PA Fuji Photo Film Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 37 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 2005097371	A	20050414	JP 2003-330636 200309 22	
		<--		
PRAI JP 2003-330636		20030922	<--	

AB The compns. are used for optical members (e.g., antireflective films, optical waveguides) having fine profile structures and F on their surfaces. The compns. give antireflective films showing good scratch resistance, useful for liq. crystal displays.

IT 849819-47-2, Ethylene oxide-1H,1H-heptadecafluorononyl  
acrylate graft copolymer acrylate  
(comprised of actual and assumed monomers; fluoropolymer compns.  
for antisoiling optical members of image display devices)

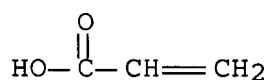
RN 849819-47-2 HCA

CN 2-Propenoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,9-  
heptadecafluorononyl ester, polymer with oxirane, 2-propenoate,  
graft (9CI) (CA INDEX NAME)

CM 1

CRN 79-10-7

CMF C3 H4 O2



CM 2

CRN 849819-46-1

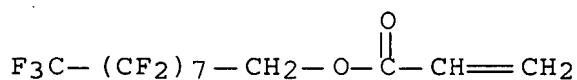
CMF (C12 H5 F17 O2 . C2 H4 O)<sub>x</sub>

CCI PMS

CM 3

CRN 307-87-9

CMF C12 H5 F17 O2



CM 4

CRN 75-21-8

CMF C2 H4 O



IT 849824-56-2P, 1H,1H-Nonafluoropentyl acrylate-polyethylene glycol monoacrylate graft copolymer carbamate ester with 2-isocyanatoethyl methacrylate, polymer with DPHA and 2-hydroxyethyl methacrylate-isobornyl methacrylate-methyl methacrylate copolymer carbamate ester with Karenzu MOI 849824-59-5P

849824-61-9P, 1H,1H-Nonafluoropentyl acrylate-polyethylene glycol monoacrylate graft copolymer carbamate ester with 2-isocyanatoethyl methacrylate, polymer with DPHA and 2-hydroxyethyl vinyl ether-hexafluoropropylene copolymer acrylate (fluoropolymer compns. for antisoiling optical members of image display devices)

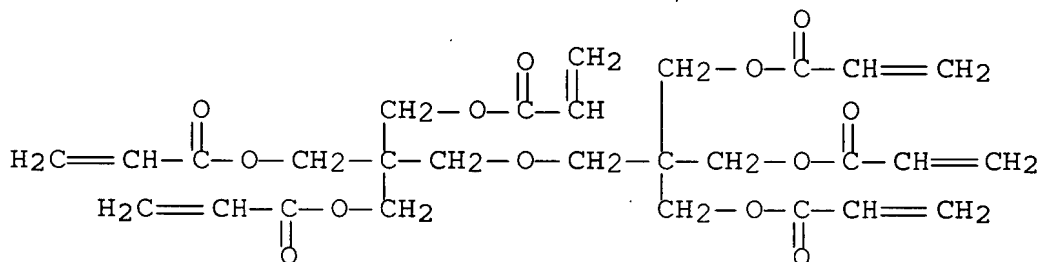
RN 849824-56-2 HCA

CN 2-Propenoic acid, 2-[[3-[(1-oxo-2-propenyl)oxy]-2,2-bis[[[(1-oxo-2-propenyl)oxy]methyl]propoxy]methyl]-2-[[[(1-oxo-2-propenyl)oxy]methyl]-1,3-propanediyl ester, polymer with 2-hydroxyethyl 2-methyl-2-propenoate polymer with methyl 2-methyl-2-propenoate and rel-(1R,2R,4R)-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl 2-methyl-2-propenoate [2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl]carbamate, and 2,2,3,3,4,4,5,5,5-nonafluoropentyl 2-propenoate graft polymer with  $\alpha$ -(1-oxo-2-propenyl)- $\omega$ -hydroxypoly(oxy-1,2-ethanediyl) [2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl]carbamate (9CI) (CA INDEX NAME)

CM 1

CRN 29570-58-9

CMF C28 H34 O13



CM 2

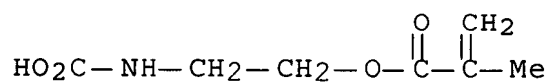
CRN 849824-53-9

CMF (C<sub>8</sub> H<sub>5</sub> F<sub>9</sub> O<sub>2</sub> . (C<sub>2</sub> H<sub>4</sub> O)<sub>n</sub> C<sub>3</sub> H<sub>4</sub> O<sub>2</sub>)<sub>x</sub> . x C<sub>7</sub> H<sub>11</sub> N O<sub>4</sub>

CM 3

CRN 96571-20-9

CMF C<sub>7</sub> H<sub>11</sub> N O<sub>4</sub>



CM 4

CRN 849824-52-8

CMF (C<sub>8</sub> H<sub>5</sub> F<sub>9</sub> O<sub>2</sub> . (C<sub>2</sub> H<sub>4</sub> O)<sub>n</sub> C<sub>3</sub> H<sub>4</sub> O<sub>2</sub>)<sub>x</sub>

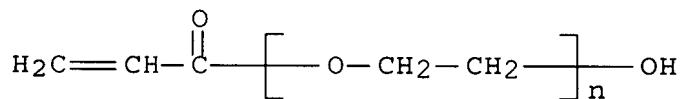
CCI PMS

CM 5

CRN 26403-58-7

CMF (C<sub>2</sub> H<sub>4</sub> O)<sub>n</sub> C<sub>3</sub> H<sub>4</sub> O<sub>2</sub>

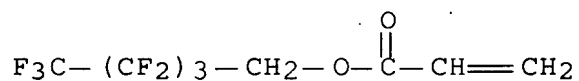
CCI PMS



CM 6

CRN 308-26-9

CMF C<sub>8</sub> H<sub>5</sub> F<sub>9</sub> O<sub>2</sub>



CM 7

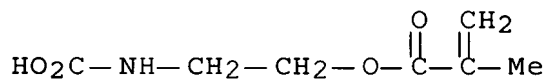
CRN 535926-16-0

CMF (C<sub>14</sub> H<sub>22</sub> O<sub>2</sub> . C<sub>6</sub> H<sub>10</sub> O<sub>3</sub> . C<sub>5</sub> H<sub>8</sub> O<sub>2</sub>)<sub>x</sub> . x C<sub>7</sub> H<sub>11</sub> N O<sub>4</sub>

CM 8

CRN 96571-20-9

CMF C<sub>7</sub> H<sub>11</sub> N O<sub>4</sub>



CM 9

CRN 501917-98-2

CMF (C<sub>14</sub> H<sub>22</sub> O<sub>2</sub> . C<sub>6</sub> H<sub>10</sub> O<sub>3</sub> . C<sub>5</sub> H<sub>8</sub> O<sub>2</sub>)<sub>x</sub>

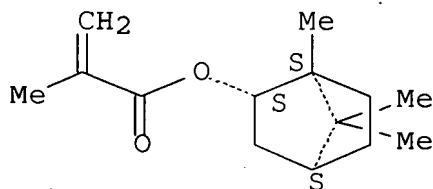
CCI PMS

CM 10

CRN 7534-94-3

CMF C<sub>14</sub> H<sub>22</sub> O<sub>2</sub>

Relative stereochemistry.

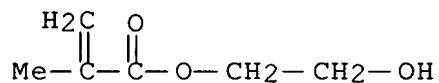




CM 11

CRN 868-77-9

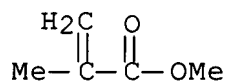
CMF C6 H10 O3



CM 12

CRN 80-62-6

CMF C5 H8 O2



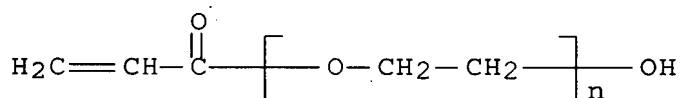
RN 849824-59-5 HCA

CN 2-Propenoic acid, 2-[[3-[(1-oxo-2-propenyl)oxy]-2,2-bis[[[(1-oxo-2-propenyl)oxy]methyl]propoxy]methyl]-2-[[[(1-oxo-2-propenyl)oxy]methyl]-1,3-propanediyl ester, polymer with 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,9-heptafluorononyl 2-propenoate graft polymer with  $\alpha$ -(1-oxo-2-propenyl)- $\omega$ -hydroxypoly(oxy-1,2-ethanediyl) 2-propenoate (9CI) (CA INDEX NAME)

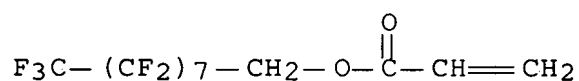
CM 1

CRN 29570-58-9

CMF C28 H34 O13

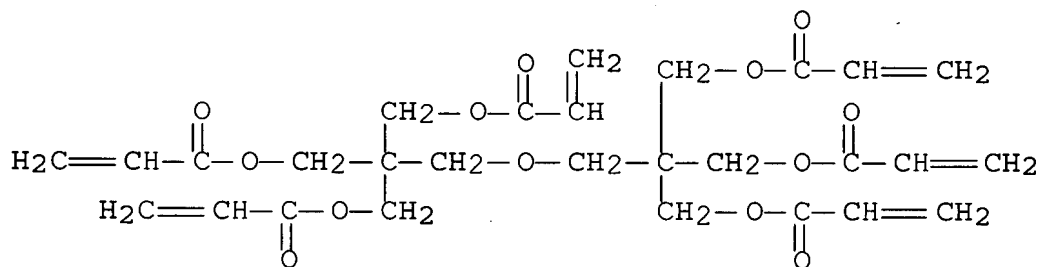


CMF C12 H5 F17 O2



CN 2-Propenoic acid, 2-[[[3-[(1-oxo-2-propenyl)oxy]-2,2-bis[[[(1-oxo-2-propenyl)oxy]methyl]propoxy]methyl]-2-[[[(1-oxo-2-propenyl)oxy]methyl]-1,3-propanediyl ester, polymer with 2-(ethenyloxy)ethanol polymer with 1,1,2,3,3,3-hexafluoro-1-propene 2-propenoate, and 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,9-heptafluorononyl 2-propenoate graft polymer with  $\alpha$ -(1-oxo-2-propenyl)- $\omega$ -hydroxypoly(oxy-1,2-ethanediyl) [2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl]carbamate (9CI) (CA INDEX NAME)

CMF C28 H34 O13



CM 2

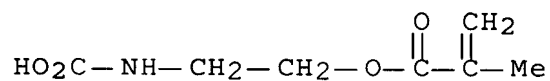
CRN 849824-60-8

CMF (C<sub>12</sub> H<sub>5</sub> F<sub>17</sub> O<sub>2</sub>) . (C<sub>2</sub> H<sub>4</sub> O)<sub>n</sub> C<sub>3</sub> H<sub>4</sub> O<sub>2</sub>)<sub>x</sub> . x C<sub>7</sub> H<sub>11</sub> N O<sub>4</sub>

CM 3

CRN 96571-20-9

CMF C<sub>7</sub> H<sub>11</sub> N O<sub>4</sub>



CM 4

CRN 849824-57-3

CMF (C<sub>12</sub> H<sub>5</sub> F<sub>17</sub> O<sub>2</sub>) . (C<sub>2</sub> H<sub>4</sub> O)<sub>n</sub> C<sub>3</sub> H<sub>4</sub> O<sub>2</sub>)<sub>x</sub>

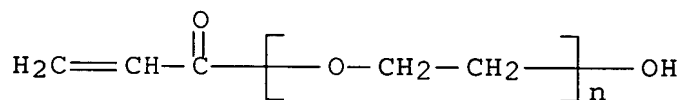
CCI PMS

CM 5

CRN 26403-58-7

CMF (C<sub>2</sub> H<sub>4</sub> O)<sub>n</sub> C<sub>3</sub> H<sub>4</sub> O<sub>2</sub>

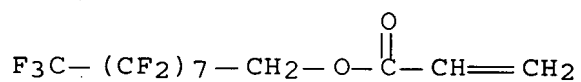
CCI PMS



CM 6

CRN 307-87-9

CMF C<sub>12</sub> H<sub>5</sub> F<sub>17</sub> O<sub>2</sub>



CM 7

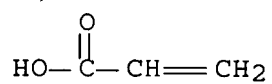
CRN 655247-42-0

CMF (C4 H8 O2 . C3 F6)x . x C3 H4 O2

CM 8

CRN 79-10-7

CMF C3 H4 O2



CM 9

CRN 613687-03-9

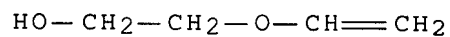
CMF (C4 H8 O2 . C3 F6)x

CCI PMS

CM 10

CRN 764-48-7

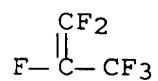
CMF C4 H8 O2



CM 11

CRN 116-15-4

CMF C3 F6



IT 849824-53-9, 1H,1H-Nonafluoropentyl acrylate-polyethylene glycol monoacrylate-graft copolymer carbamate ester with 2-isocyanatoethyl methacrylate 849824-58-4, 1H,1H-Heptadecafluorononyl acrylate-polyethylene glycol monoacrylate graft copolymer acrylate (fluoropolymer compns. for antisoiling optical members of image display devices)

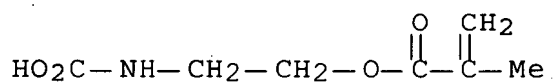
RN 849824-53-9 HCA

CN 2-Propenoic acid, 2,2,3,3,4,4,5,5,5-nonafluoropentyl ester, polymer with  $\alpha$ -(1-oxo-2-propenyl)- $\omega$ -hydroxypoly(oxy-1,2-ethanediyl), [2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl]carbamate, graft (9CI) (CA INDEX NAME)

CM 1

CRN 96571-20-9

CMF C7 H11 N O4



CM 2

CRN 849824-52-8

CMF (C8 H5 F9 O2 . (C2 H4 O)<sub>n</sub> C3 H4 O2)<sub>x</sub>

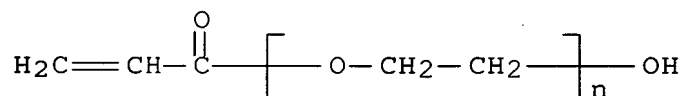
CCI PMS

CM 3

CRN 26403-58-7

CMF (C2 H4 O)<sub>n</sub> C3 H4 O2

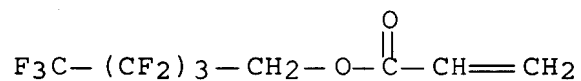
CCI PMS



CM 4

CRN 308-26-9

CMF C8 H5 F9 O2



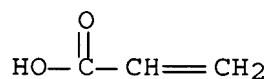
RN 849824-58-4 HCA

CN 2-Propenoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,9-heptafluorononyl ester, polymer with  $\alpha$ -(1-oxo-2-propenyl)- $\omega$ -hydroxypoly(oxy-1,2-ethanediyl), 2-propenoate, graft (9CI)  
(CA INDEX NAME)

CM 1

CRN 79-10-7

CMF C3 H4 O2



CM 2

CRN 849824-57-3

CMF (C12 H5 F17 O2) . (C2 H4 O)<sub>n</sub> C3 H4 O2)<sub>x</sub>

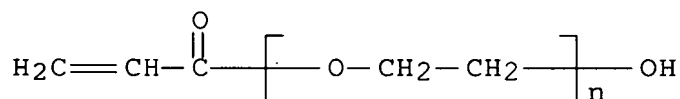
CCI PMS

CM 3

CRN 26403-58-7

CMF (C2 H4 O)<sub>n</sub> C3 H4 O2

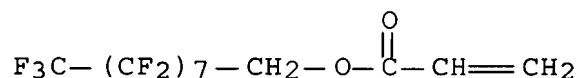
CCI PMS



CM 4

CRN 307-87-9

CMF C12 H5 F17 O2



IC ICM C08L101-00

ICS C08K005-00; G02B001-04; G02B001-11; G02B005-18; G02B005-30;  
G02F001-1335; H05B033-02; H05B033-14

CC 74-13 (Radiation Chemistry, Photochemistry, and Photographic and  
Other Reprographic Processes)  
Section cross-reference(s): 38, 73

ST fluoropolymer optical waveguide antireflective device image display;  
polyoxypropylene decafluoroheptyl acrylate isocyanatoethyl  
methacrylate polymer; profile pattern acrylic fluoropolymer  
polyoxyalkylene **LCD**

IT Antireflective films

Lenses

**Liquid crystal displays**

Optical disks

Optical imaging devices

Optical instruments

Optical waveguides

Polarizers

(fluoropolymer compns. for antisoiling optical members of image  
display devices)

IT 849819-47-2, Ethylene oxide-1H,1H-heptafluorononyl  
acrylate graft copolymer acrylate 849824-55-1, Ethylene  
oxide-1H,1H-nonafluoropentyl acrylate graft copolymer carbamate  
ester with 2-isocyanatoethyl methacrylate

(comprised of actual and assumed monomers; fluoropolymer compns.  
for antisoiling optical members of image display devices)

IT 849824-50-6P, Blemmer AP 400-1H,1H,7H-dodecafluoroheptyl acrylate



graft copolymer carbamate ester with 2-isocyanatoethyl methacrylate, polymer with DPHA 849824-51-7P, Blemmer AP 400-1H,1H,7H-dodecafluoroheptyl acrylate graft copolymer carbamate ester with 2-isocyanatoethyl methacrylate, polymer with DPHA and 2-hydroxyethyl methacrylate-isobornyl methacrylate-methyl methacrylate copolymer carbamate ester with Karenzu MOI 849824-56-2P, 1H,1H-Nonafluoropentyl acrylate-polyethylene glycol monoacrylate graft copolymer carbamate ester with 2-isocyanatoethyl methacrylate, polymer with DPHA and 2-hydroxyethyl methacrylate-isobornyl methacrylate-methyl methacrylate copolymer carbamate ester with Karenzu MOI 849824-59-5P 849824-61-9P, 1H,1H-Nonafluoropentyl acrylate-polyethylene glycol monoacrylate graft copolymer carbamate ester with 2-isocyanatoethyl methacrylate, polymer with DPHA and 2-hydroxyethyl vinyl ether-hexafluoropropylene copolymer acrylate

(fluoropolymer compns. for antisoiling optical members of image display devices)

IT 849824-53-9, 1H,1H-Nonafluoropentyl acrylate-polyethylene glycol monoacrylate-graft copolymer carbamate ester with 2-isocyanatoethyl methacrylate 849824-58-4, 1H,1H-Heptafluorononyl acrylate-polyethylene glycol monoacrylate graft copolymer acrylate

(fluoropolymer compns. for antisoiling optical members of image display devices)

L47 ANSWER 2 OF 7 HCA COPYRIGHT 2007 ACS on STN

AN 141:96793 HCA [Full-text](#)

TI Optical compensating sheet and polarizing plate for **liquid crystal** display

IN Ito, Youji; Yasuda, Tomokazu; Fukagawa, Nobutaka; Tanaka, Makoto; Mihayashi, Keiji

PA Fuji Photo Film Co., Ltd., Japan; Ito Youji

SO PCT Int. Appl., 153 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI WO 2004055558 A1 20040701 WO 2003-JP16128

200312

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W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,

GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

JP 2004198511 A 20040715 JP 2002-364034  
200212  
16

JP 2004294667 A 20041021 JP 2003-85455  
200303  
26

AU 2003288751 A1 20040709 AU 2003-288751  
200312  
16

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EP 1573373 A1 20050914 EP 2003-780806  
200312  
16

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R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK

CN 1726413 A 20060125 CN 2003-80106265  
200312  
16

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US 2006040070 A1 20060223 US 2005-535248  
200505  
18

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PRAI JP 2002-364034 A 20021216 <--  
JP 2003-85455 A 20030326 <--  
WO 2003-JP16128 W 20031216 <--

AB The present invention provides a method for producing an optical compensating sheet, comprising a step of simultaneously coating at least two coating solns. on a transparent support, wherein at least one of the coating solns. simultaneously coated in that step contains a **liq. cryst. compd.** and another coating soln. contains a surface active agent; an optical compensating sheet obtained by this method; an optical film comprising a support having thereon an optically anisotropic layer formed contg. a **liq. cryst. compd.** and a fluoroaliph. group-contg. copolymer contg. a repeating unit derived from a fluoroaliph. group-contg. (meth)acrylate monomer and a repeating unit derived from a polyoxyalkylene (meth)acrylate monomer; and a polarizing plate and a **liq. crystal** display device each using the optical

compensating sheet or optical film. The object of the present invention is to provide an optical compensating sheet comprising a support having thereon a **liq. cryst. compd.-contg.** layer, which is free of unevenness and favored with excellent optical uniformity in the sheet plane, and a **liq. crystal** display producing an image of high quality without causing unevenness even in large size.

IT 602299-31-0 714959-32-7

(surface active agent; optical compensating sheet and polarizing plate for **liq. crystal** display)

RN 602299-31-0 HCA

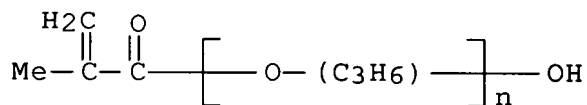
CN 2-Propenoic acid, 2-methyl-, 3,3,4,4,5,5,6,6,6-nonafluorohexyl ester, polymer with  $\alpha$ -(2-methyl-1-oxo-2-propenyl)- $\omega$ -hydroxypoly[oxy(methyl-1,2-ethanediyl)] and  $\alpha$ -(1-oxo-2-propenyl)- $\omega$ -hydroxypoly(oxy-1,2-ethanediyl) (9CI) (CA INDEX NAME)

CM 1

CRN 39420-45-6

CMF (C<sub>3</sub> H<sub>6</sub> O)<sub>n</sub> C<sub>4</sub> H<sub>6</sub> O<sub>2</sub>

CCI IDS, PMS

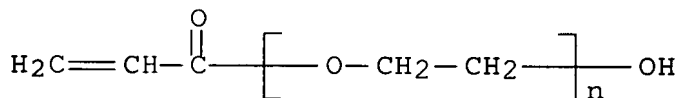


CM 2

CRN 26403-58-7

CMF (C<sub>2</sub> H<sub>4</sub> O)<sub>n</sub> C<sub>3</sub> H<sub>4</sub> O<sub>2</sub>

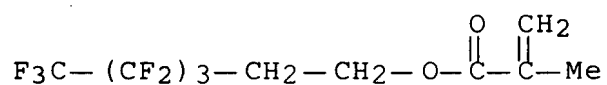
CCI PMS



CM 3

CRN 1799-84-4

CMF C<sub>10</sub> H<sub>9</sub> F<sub>9</sub> O<sub>2</sub>



RN 714959-32-7 HCA

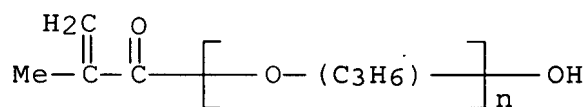
CN 2-Propenoic acid, 3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl ester, polymer with  $\alpha$ -(2-methyl-1-oxo-2-propenyl)- $\omega$ -hydroxypoly[oxy(methyl-1,2-ethanediyl)] and  $\alpha$ -(1-oxo-2-propenyl)- $\omega$ -hydroxypoly(oxy-1,2-ethanediyl) (9CI) (CA INDEX NAME)

CM 1

CRN 39420-45-6

CMF  $(\text{C}_3\text{H}_6\text{O})_n\text{C}_4\text{H}_6\text{O}_2$

CCI IDS, PMS

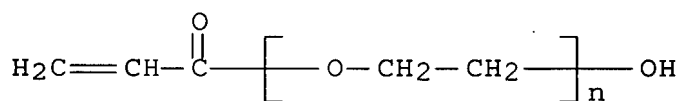


CM 2

CRN 26403-58-7

CMF  $(\text{C}_2\text{H}_4\text{O})_n\text{C}_3\text{H}_4\text{O}_2$

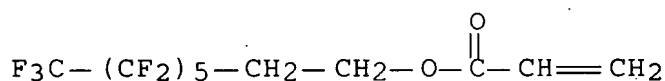
CCI PMS



CM 3

CRN 17527-29-6

CMF  $\text{C}_{11}\text{H}_7\text{F}_{13}\text{O}_2$



IC ICM G02B005-30

ICS G02F001-1335

CC 74-13 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)

ST optical compensating sheet polarizing plate **liq crystal** display

IT **Liquid crystal** displays

Polarizers

(optical compensating sheet and polarizing plate for **liq crystal** display)

IT Fluoropolymers, uses

(optical compensating sheet and polarizing plate for **liq crystal** display)

IT 9004-36-8, CAB 551

(CAB 551, CAB 531-1; optical compensating sheet and polarizing plate for **liq crystal** display)

IT 28961-43-5, V 360

(V-360; optical compensating sheet and polarizing plate for **liq crystal** display)

IT 66230-67-9, ZLI 1132

(ZLI 1132; optical compensating sheet and polarizing plate for **liq crystal** display)

IT 115-86-6, Triphenyl phosphate 9004-35-7, Cellulose acetate

9012-09-3, Cellulose triacetate 60842-32-2, Aerosil R972

60893-79-0, Biphenyl diphenyl phosphate 174079-42-6

(optical compensating sheet and polarizing plate for **liq crystal** display)

IT 405226-47-3 601490-04-4 **602299-31-0** 714959-30-5

714959-31-6 **714959-32-7**

(surface active agent; optical compensating sheet and polarizing plate for **liq crystal** display)

RE.CNT 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L47 ANSWER 3 OF 7 HCA COPYRIGHT 2007 ACS on STN

AN 141:44942 HCA Full-text

TI Antireflective films for protective films of polarizers and display devices

IN Ibuki, Shuntaro; Yasuda, Tomokazu

PA Fuji Photo Film Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 68 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI JP 2004163610	A	20040610	JP 2002-328573	
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200211

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PRAI JP 2002-328573	20021112	<--
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AB The antireflective films comprise transparent substrates and multilayer functional layers with different n including fluoroaliph. group-contg. copolymer layers prepd. from HC:CR1COX(CH2)m(CF2CF2)nF (R1 = H, Me; X = O, S, NR2; R2 = H, C1-4 alkyl; m = 1-6; n = 1-3), poly(oxyalkylene) (meth)acrylates, and optionally HC:CR3COYR4 (R3 = H, Me; Y = divalent linkage group; R4 = C4-20 alkyl). The antireflective films show good surface smoothness and scratch resistance and are useful for liq. crystal displays, org. EL displays, etc.

IT 451478-73-2 451478-74-3 657429-11-3,

Megafac F 780F

(antireflective films for protective films of polarizers and display devices)

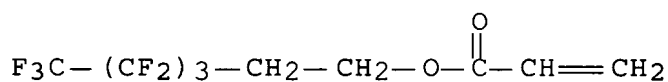
RN 451478-73-2 HCA

CN 2-Propenoic acid, 3,3,4,4,5,5,6,6,6-nonafluorohexyl ester, polymer with  $\alpha$ -(2-methyl-1-oxo-2-propenyl)- $\omega$ -hydroxypoly(oxy-1,2-ethanediyl) and  $\alpha$ -(1-oxo-2-propenyl)- $\omega$ -hydroxypoly[oxy(methyl-1,2-ethanediyl)], graft (9CI) (CA INDEX NAME)

CM 1

CRN 52591-27-2

CMF C9 H7 F9 O2

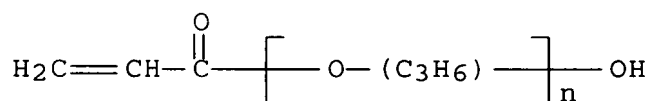


CM 2

CRN 50858-51-0

CMF (C3 H6 O)n C3 H4 O2

CCI IDS, PMS

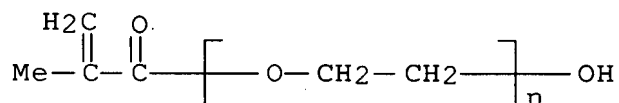


CM 3

CRN 25736-86-1

CMF  $(\text{C}_2\text{H}_4\text{O})_n\text{C}_4\text{H}_6\text{O}_2$

CCI PMS



RN 451478-74-3 HCA

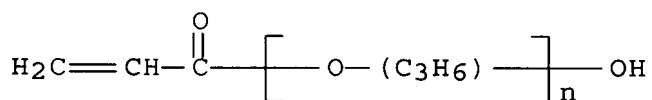
CN 2-Propenoic acid, 3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl ester, polymer with  $\alpha$ -(2-methyl-1-oxo-2-propenyl)- $\omega$ -hydroxypoly(oxy-1,2-ethanediyl) and  $\alpha$ -(1-oxo-2-propenyl)- $\omega$ -hydroxypoly[oxy(methyl-1,2-ethanediyl)], graft (9CI) (CA INDEX NAME)

CM 1

CRN 50858-51-0

CMF  $(\text{C}_3\text{H}_6\text{O})_n\text{C}_3\text{H}_4\text{O}_2$

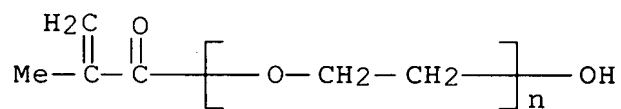
CCI IDS, PMS



CM 2

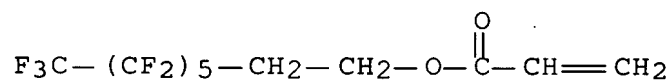
CRN 25736-86-1

CMF (C<sub>2</sub> H<sub>4</sub> O)<sub>n</sub> C<sub>4</sub> H<sub>6</sub> O<sub>2</sub>  
 CCI PMS



CM 3

CRN 17527-29-6  
 CMF C<sub>11</sub> H<sub>7</sub> F<sub>13</sub> O<sub>2</sub>

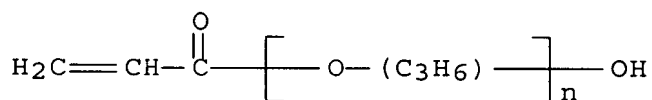


RN 657429-11-3 HCA

CN 2-Propenoic acid, 3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl ester, polymer with  $\alpha$ -(1-oxo-2-propen-1-yl)- $\omega$ -hydroxypoly(oxy-1,2-ethanediyl) and  $\alpha$ -(1-oxo-2-propen-1-yl)- $\omega$ -hydroxypoly[oxy(methyl-1,2-ethanediyl)], graft (CA INDEX NAME)

CM 1

CRN 50858-51-0  
 CMF (C<sub>3</sub> H<sub>6</sub> O)<sub>n</sub> C<sub>3</sub> H<sub>4</sub> O<sub>2</sub>  
 CCI IDS, PMS

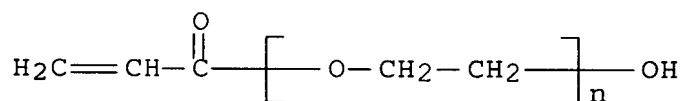


CM 2

CRN 26403-58-7

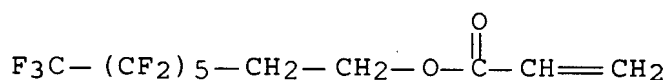


CMF (C2 H4 O)<sub>n</sub> C3 H4 O2  
CCI PMS



CM 3

CRN 17527-29-6  
CMF C11 H7 F13 O2



IC ICM G02B001-11

ICS B32B027-30; G02B005-30; G02F001-1335; G09F009-00

CC 74-13 (Radiation Chemistry, Photochemistry, and Photographic and  
Other Reprographic Processes)

Section cross-reference(s): 38, 73

ST antireflective film polarizer display acrylic fluoropolymer  
polyoxyalkylene; perfluorobutylethyl acrylate polyoxyethylene  
polymer graft antireflective film; acetyl cellulose antireflective  
film **LCD EL**

IT Antireflective films

**Liquid crystal displays**

Optical imaging devices

Polarizers

(antireflective films for protective films of polarizers and  
display devices)

IT 9012-09-3, TAC TD80U 451462-62-7 451462-64-9 451462-65-0  
451462-67-2 451478-65-2 **451478-73-2 451478-74-3**

**657429-11-3**, Megafac F 780F 702686-08-6

(antireflective films for protective films of polarizers and  
display devices)

L47 ANSWER 4 OF 7 HCA COPYRIGHT 2007 ACS on STN

AN 140:431541 HCA [Full-text](#)

TI Photosensitive transfer material for forming color filters for

**liquid crystal displays**

IN Hatakeyama, Akira

PA Fuji Photo Film Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 14 pp.

CODEN: JKXXAF

DT Patent

LA Japanese.

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	JP 2004151506	A	20040527	JP 2002-318138
				200210
				31

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PRAI JP 2002-318138 20021031 <--

AB The material comprises, successively on a temporary support, a thermoplastic resin layer, an alkali-sol. intermediate layer, and an alkali-sol. photosensitive resin layer contg. pigments, wherein the difference in dispersion force component of surface free energy between the intermediate layer ( $\gamma_m$ ) and the thermoplastic resin layer ( $\gamma_p$ ) is  $\geq 10$  erg/cm<sup>2</sup>. Preferably, the intermediate layer contains polyvinyl alc. and/or polymer latexes. The temporary support and the thermoplastic resin layer can be simultaneously peeled off the intermediate layer with small force prior to exposure with light.

IT 657429-11-3, Megafac F 780F  
(surfactant, thermoplastic resin layer component; photosensitive transfer material for forming color filters for **liq. crystal displays**)

RN 657429-11-3 HCA

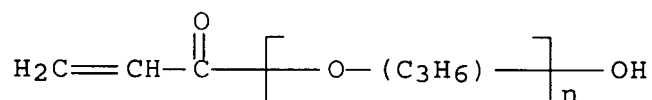
CN 2-Propenoic acid, 3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl ester, polymer with  $\alpha$ -(1-oxo-2-propen-1-yl)- $\omega$ -hydroxypoly(oxy-1,2-ethanediyl) and  $\alpha$ -(1-oxo-2-propen-1-yl)- $\omega$ -hydroxypoly[oxy(methyl-1,2-ethanediyl)], graft (CA INDEX NAME)

CM 1

CRN 50858-51-0

CMF (C<sub>3</sub>H<sub>6</sub>O)<sub>n</sub> C<sub>3</sub>H<sub>4</sub>O<sub>2</sub>

CCI IDS, PMS

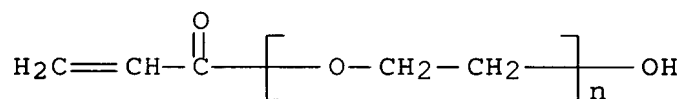


CM 2

CRN 26403-58-7

CMF (C<sub>2</sub> H<sub>4</sub> O)<sub>n</sub> C<sub>3</sub> H<sub>4</sub> O<sub>2</sub>

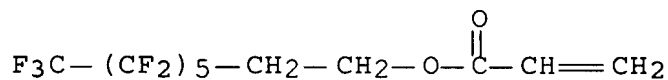
CCI PMS



CM 3

CRN 17527-29-6

CMF C<sub>11</sub> H<sub>7</sub> F<sub>13</sub> O<sub>2</sub>



IC ICM G03F007-11

ICS G02B005-20

CC 74-13 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)

Section cross-reference(s): 38

ST photosensitive transfer material manuf color filter **LCD**;

**liq crystal** display color filter manuf

photoimaging transfer

IT **Liquid crystal** displays

(color filters of; photosensitive transfer material for forming color filters for **liq. crystal** displays)

IT Optical filters

(of **liq. crystal** displays; photosensitive transfer material for forming color filters for **liq. crystal** displays)

IT Fluoropolymers, uses

(parting agent, intermediate layer component; photosensitive transfer material for forming color filters for **liq. crystal** displays)

IT Surface free energy

## Transfers

- (photosensitive transfer material for forming color filters for **liq. crystal** displays)
- IT Polyesters, uses  
(temporary support; photosensitive transfer material for forming color filters for **liq. crystal** displays)
- IT Polyesters, uses  
(thermoplastic resin layer component; photosensitive transfer material for forming color filters for **liq. crystal** displays)
- IT Photoimaging materials  
(transfer; photosensitive transfer material for forming color filters for **liq. crystal** displays)
- IT 9002-88-4  
(Poriron A, wax, intermediate layer component; photosensitive transfer material for forming color filters for **liq. crystal** displays)
- IT 9003-39-8, PVP-K 30 122463-72-3, PVA 205  
(intermediate layer component; photosensitive transfer material for forming color filters for **liq. crystal** displays)
- IT 9002-89-5, Polyvinyl alcohol  
(intermediate layer component; photosensitive transfer material for forming color filters for **liq. crystal** displays)
- IT 9003-32-1, Ethyl acrylate homopolymer  
(latex, intermediate layer component; photosensitive transfer material for forming color filters for **liq. crystal** displays)
- IT 642087-27-2, Modiper F 2020  
(parting agent, intermediate layer component; photosensitive transfer material for forming color filters for **liq. crystal** displays)
- IT 29570-58-9, Dipentaerythritol hexaacrylate 65697-21-4, Benzyl methacrylate-methacrylic acid copolymer  
(photosensitive layer component; photosensitive transfer material for forming color filters for **liq. crystal** displays)
- IT 657429-11-3, Megafac F 780F  
(surfactant, thermoplastic resin layer component; photosensitive transfer material for forming color filters for **liq. crystal** displays)
- IT 25038-59-9, Polyethylene terephthalate, uses  
(temporary support; photosensitive transfer material for forming color filters for **liq. crystal** displays)
- IT 25085-34-1, Acrylic acid-styrene copolymer 41637-38-1, BPE 500

118550-59-7, Vylon 220 120659-23-6, Benzyl methacrylate-2-ethylhexyl acrylate-methacrylic acid-methyl methacrylate copolymer  
207004-71-5, Desmolac 4200

(thermoplastic resin layer component; photosensitive transfer material for forming color filters for liq. crystal displays)

L47 ANSWER 5 OF 7 HCA COPYRIGHT 2007 ACS on STN

AN 140:312017 HCA Full-text

TI Color resist compositions containing polymeric fluorosurfactants

IN Suzuki, Hidenari; Takano, Kiyoshi

PA Dainippon Ink and Chemicals, Inc., Japan

SO Jpn. Kokai Tokkyo Koho, 25 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI JP 2004109179	A	20040408	JP 2002-268142	
			200209	
			13	

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PRAI JP 2002-268142 20020913 <--

AB The compns., which show good spin coating workability and are useful for manuf. of color filters for liq. crystal displays, etc., contain polymeric fluorosurfactants prepd. by polymg. monomer mixts. contg. (A) fluoroalkyl-contg. ethylenically-unsatd. monomers, (B) basic group-contg. ethylenically-unsatd. monomers, wherein content of (B) in the mixts. is 5-70%. The monomer mixts. may addnl. contain (C) silicone chain-contg. ethylenically-unsatd. monomers and/or (D) branched aliph. group-contg. ethylenically-unsatd. monomers, and (E) polyoxyalkylene-contg. ethylenically-unsatd. monomers.

IT 676603-45-5P

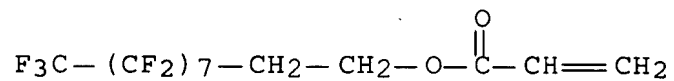
(color resist compns. with good spin coating workability contg. fluorosurfactants prepd. from fluoroalkyl-contg. monomers and basic group-contg. monomers as essential constituents)

RN 676603-45-5 HCA

CN 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptafluorodecyl 2-propenoate, methyl 2-methyl-2-propenoate, methyloxirane, oxirane, oxybis(2,1-ethanediyl)oxy-2,1-ethanediyl di-2-propenoate, 2-propenoic acid and 3-[3,3,3-trimethyl-1,1-bis[(trimethylsilyl)oxy]disiloxanyl]propyl 2-methyl-2-propenoate, graft (9CI) (CA INDEX NAME)

CM 1

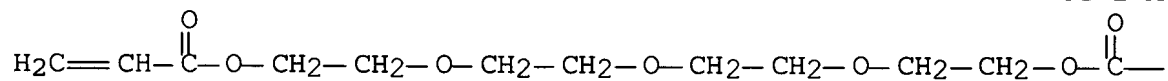
CRN 27905-45-9  
CMF C13 H7 F17 O2



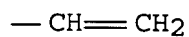
CM 2

CRN 17831-71-9  
CMF C14 H22 O7

PAGE 1-A

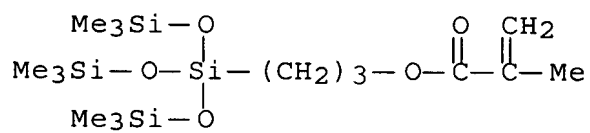


PAGE 1-B



CM 3

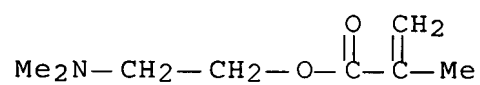
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CM 4

CRN 2867-47-2

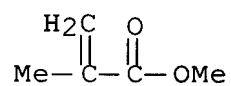
CMF C8 H15 N O2



CM 5

CRN 80-62-6

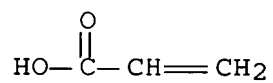
CMF C5 H8 O2



CM 6

CRN 79-10-7

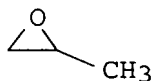
CMF C3 H4 O2



CM 7

CRN 75-56-9

CMF C3 H6 O



CM 8

CRN 75-21-8

CMF C2 H4 O



IC ICM G03F007-004

ICS G02B005-20; C08F220-24; C08F220-34; C08F220-56; C08F226-06;  
C08F230-08; C08F290-06

CC 74-5 (Radiation Chemistry, Photochemistry, and Photographic and  
Other Reprographic Processes)

Section cross-reference(s): 73

ST resist compn polymeric fluorosurfactant **LCD** color filter;  
fluoroalkyl contg monomer fluorosurfactant color filter resist  
compn; **liq crystal** display color filter resist  
fluorosurfactant; basic group contg monomer fluorosurfactant color  
filter resist compn

IT **Liquid crystal** displays

(color filters for; color resist compns. with good spin coating  
workability contg. fluorosurfactants prepd. from  
fluoroalkyl-contg. monomers and basic group-contg. monomers as  
essential constituents)

IT 676603-38-6P 676603-39-7P 676603-40-0P 676603-41-1P

676603-42-2P 676603-43-3P 676603-44-4P **676603-45-5P**

676603-46-6P 676603-47-7P 676603-48-8P

(color resist compns. with good spin coating workability contg.  
fluorosurfactants prepd. from fluoroalkyl-contg. monomers and  
basic group-contg. monomers as essential constituents)

L47 ANSWER 6 OF 7 HCA COPYRIGHT 2007 ACS on STN

AN 139:401618 HCA Full-text

TI Image forming material

IN Goto, Hidenori

PA Japan



SO U.S. Pat. Appl. Publ., 17 pp.

CODEN: USXXCO

DT Patent

LA English

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI US 2003215743 A1 20031120 US 2003-437885  
200305  
15

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JP 2003337424 A 20031128 JP 2002-144339  
200205  
20

<--  
PRAI JP 2002-144339 A 20020520 <--

AB The present invention relates to an image forming material in which at least an alkali-sol. thermoplastic resin layer and a photosensitive resin layer are formed on a support in this order. At least the thermoplastic resin layer of the image forming material includes a copolymer comprising monomers represented by: (a)  $\text{H}_2\text{C}=\text{CR}_1-\text{COO}(\text{CH}_2)_n\text{CmF}_2\text{m}+1$  and (b)  $\text{H}_2\text{C}=\text{CR}_2-\text{COO}(\text{CH}_2\text{CHR}_3\text{O})_p(\text{CH}_2\text{CH}_2\text{O})_q\text{R}_4$  ( $\text{R}_1-3 = \text{H}, \text{Me}$ ;  $\text{R}_4 = \text{H}, \text{C}_1-5 \text{ alkyl}$ ;  $n = 1-18$ ;  $m = 2-14$ ;  $p, q = 0-18$ , and  $p, p$  cannot be 0 simultaneously), a content ratio by mass of the monomers (a)/(b) is from 20/80 to 60/40.

IT 593259-12-2 625417-17-6 625417-18-7  
625417-21-2

(image forming material for liq. crystal display)

RN 593259-12-2 HCA

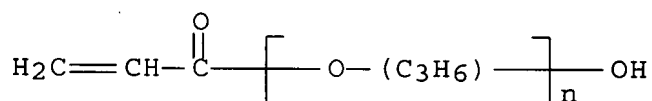
CN 2-Propenoic acid, 3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl ester, polymer with  $\alpha$ -(1-oxo-2-propen-1-yl)- $\omega$ -hydroxypoly(oxy-1,2-ethanediyl) and  $\alpha$ -(1-oxo-2-propen-1-yl)- $\omega$ -hydroxypoly[oxy(methyl-1,2-ethanediyl)] (CA INDEX NAME)

CM 1

CRN 50858-51-0

CMF  $(\text{C}_3\text{H}_6\text{O})_n\text{C}_3\text{H}_4\text{O}_2$

CCI IDS, PMS

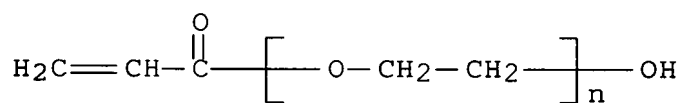


CM 2

CRN 26403-58-7

CMF (C<sub>2</sub> H<sub>4</sub> O)<sub>n</sub> C<sub>3</sub> H<sub>4</sub> O<sub>2</sub>

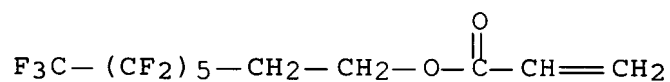
CCI PMS



CM 3

CRN 17527-29-6

CMF C<sub>11</sub> H<sub>7</sub> F<sub>13</sub> O<sub>2</sub>



RN 625417-17-6 HCA

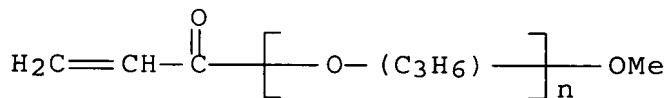
CN 2-Propenoic acid, 3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl ester, polymer with  $\alpha$ -(1-oxo-2-propenyl)- $\omega$ -hydroxypoly(oxy-1,2-ethanediyl) and  $\alpha$ -(1-oxo-2-propenyl)- $\omega$ -methoxypoly[oxy(methyl-1,2-ethanediyl)] (9CI) (CA INDEX NAME)

CM 1

CRN 83844-54-6

CMF (C<sub>3</sub> H<sub>6</sub> O)<sub>n</sub> C<sub>4</sub> H<sub>6</sub> O<sub>2</sub>

CCI IDS, PMS

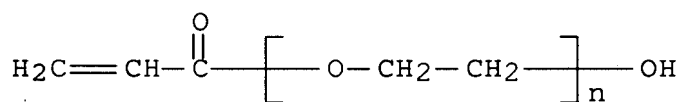


CM 2

CRN 26403-58-7

CMF (C<sub>2</sub> H<sub>4</sub> O)<sub>n</sub> C<sub>3</sub> H<sub>4</sub> O<sub>2</sub>

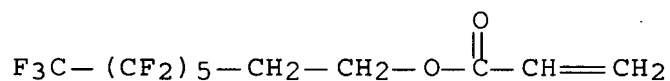
CCI PMS



CM 3

CRN 17527-29-6

CMF C<sub>11</sub> H<sub>7</sub> F<sub>13</sub> O<sub>2</sub>



RN 625417-18-7 HCA

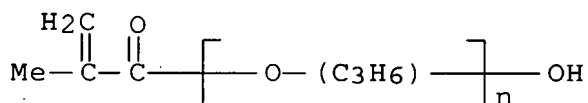
CN 2-Propenoic acid, 3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl ester, polymer with  $\alpha$ -(2-methyl-1-oxo-2-propenyl)- $\omega$ -hydroxypoly(oxy-1,2-ethanediyl) and  $\alpha$ -(2-methyl-1-oxo-2-propenyl)- $\omega$ -hydroxypoly[oxy(methyl-1,2-ethanediyl)] (9CI) (CA INDEX NAME)

CM 1

CRN 39420-45-6

CMF (C<sub>3</sub> H<sub>6</sub> O)<sub>n</sub> C<sub>4</sub> H<sub>6</sub> O<sub>2</sub>

CCI IDS, PMS

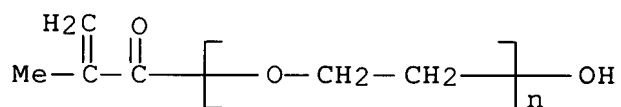


CM 2

CRN 25736-86-1

CMF (C<sub>2</sub> H<sub>4</sub> O)<sub>n</sub> C<sub>4</sub> H<sub>6</sub> O<sub>2</sub>

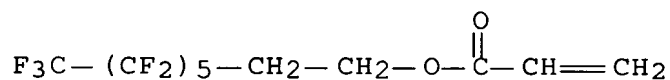
CCI PMS



CM 3

CRN 17527-29-6

CMF C<sub>11</sub> H<sub>7</sub> F<sub>13</sub> O<sub>2</sub>



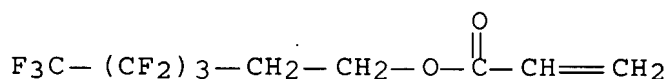
RN 625417-21-2 HCA

CN 2-Propenoic acid, 3,3,4,4,5,5,6,6,6-nonafluorohexyl ester, polymer  
with  $\alpha$ -(1-oxo-2-propenyl)- $\omega$ -hydroxypoly(oxy-1,2-ethanediyl) and  $\alpha$ -(1-oxo-2-propenyl)- $\omega$ -hydroxypoly[oxy(methyl-1,2-ethanediyl)] (9CI) (CA INDEX NAME)

CM 1

CRN 52591-27-2

CMF C<sub>9</sub> H<sub>7</sub> F<sub>9</sub> O<sub>2</sub>

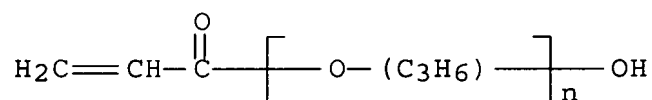


CM 2

CRN 50858-51-0

CMF (C<sub>3</sub> H<sub>6</sub> O)<sub>n</sub> C<sub>3</sub> H<sub>4</sub> O<sub>2</sub>

CCI IDS, PMS

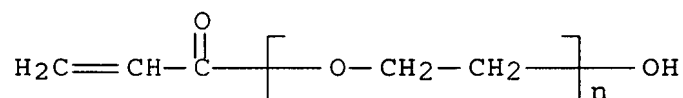


CM 3

CRN 26403-58-7

CMF (C<sub>2</sub> H<sub>4</sub> O)<sub>n</sub> C<sub>3</sub> H<sub>4</sub> O<sub>2</sub>

CCI PMS



IC ICM G03F007-11

INCL 430271100

CC 74-13 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)

Section cross-reference(s): 38

ST image material **liq crystal** display

IT Light-sensitive materials

**Liquid crystal** displays

(image forming material for **liq. crystal** display)

IT Plastics, uses

(thermoplastics; image forming material for **liq. crystal** display)

IT 593259-10-0 593259-12-2 625417-15-4 625417-16-5

625417-17-6 625417-18-7 625417-20-1

625417-21-2

(image forming material for **liq. crystal** display)

L47 ANSWER 7 OF 7 HCA COPYRIGHT 2007 ACS on STN

AN 139:44220 HCA Full-text

TI Image forming material containing specified polymer surfactant  
suitable for manufacturing liquid crystal  
display color filter

IN Suzuki, Tamotsu

PA Fuji Photo Film Co., Ltd., Japan

SO PCT Int. Appl., 80 pp.

CODEN: PIXXD2

DT Patent

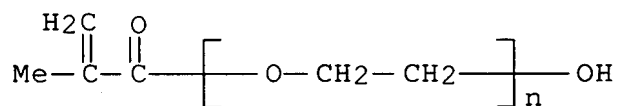
LA Japanese

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI WO 2003050620	A1	20030619	WO 2002-JP11582	
			200211	
			06	
		<--		
W: CN, KR				
JP 2003177519	A	20030627	JP 2001-380058	
			200112	
			13	
		<--		
JP 3806028	B2	20060809		
JP 2003177520	A	20030627	JP 2001-380059	
			200112	
			13	
		<--		
JP 3767806	B2	20060419		
JP 2003177521	A	20030627	JP 2001-380147	
			200112	
			13	
		<--		
JP 3767807	B2	20060419		
JP 2003177522	A	20030627	JP 2001-380283	
			200112	
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JP 3800512	B2	20060726		
JP 2003177523	A	20030627	JP 2001-380291	
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JP 3800513	B2	20060726		
CN 1527959	A	20040908	CN 2002-809795	
			200211	
			06	

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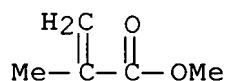
CRN 25736-86-1  
CMF (C2 H4 O)<sub>n</sub> C4 H6 O2  
CCI PMS



CM 3

CRN 80-62-6

CMF C5 H8 O2



RN 543725-94-6 HCA

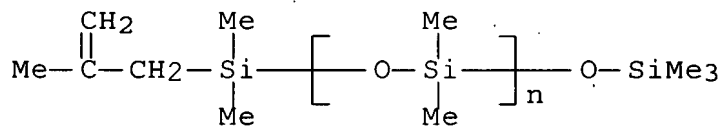
CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with  
 $\alpha$ -[dimethyl(2-methyl-2-propenyl)silyl]- $\omega$ -  
 [(trimethylsilyl)oxy]poly[oxy(dimethylsilylene)],  
 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptafluorodecyl  
 2-propenoate and  $\alpha$ -(2-methyl-1-oxo-2-propenyl)- $\omega$ -  
 hydroxypoly(oxy-1,2-ethanediyl), graft (9CI) (CA INDEX NAME)

CM 1

CRN 543725-88-8

CMF (C2 H6 O Si)<sub>n</sub> C9 H22 O Si2

CCI PMS

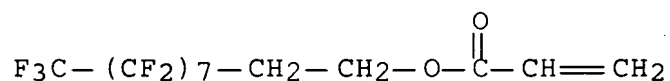


CM 2

CRN 27905-45-9

CMF C13 H7 F17 O2



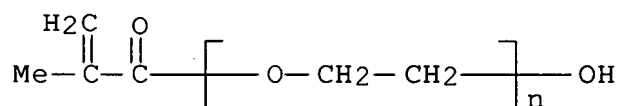


CM 3

CRN 25736-86-1

CMF  $(\text{C}_2\text{H}_4\text{O})_n\text{C}_4\text{H}_6\text{O}_2$

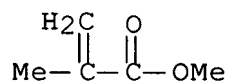
CCI PMS



CM 4

CRN 80-62-6

CMF  $\text{C}_5\text{H}_8\text{O}_2$



IC ICM G03F007-004

ICS G03F007-11

CC 74-4 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)

Section cross-reference(s): 38, 42

ST polymer surfactant photoimaging material **liq**  
crystal display color filter

IT **Liquid crystal** displays

Optical filters

(image forming material contg. specified polymer surfactant  
suitable for manufg. **liq. crystal** display  
color filter)

IT Photoimaging materials

(photopolymerizable; image forming material contg. specified  
polymer surfactant suitable for manufg. **liq.**  
**crystal** display color filter)

IT 130005-92-4 543725-89-9 543725-90-2 543725-91-3

543725-92-4 543725-93-5 **543725-94-6** 543725-95-7

543725-96-8 543725-97-9 543725-98-0 543725-99-1 543726-00-7

543726-01-8 543726-02-9 543726-03-0 543726-04-1 543726-05-2

543726-06-3 543726-07-4 543726-08-5

(surfactant; image forming material contg. specified polymer  
surfactant suitable for manufg. **liq. crystal**  
display color filter)

RE.CNT 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT